Publisher: ACM Press
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4 Precise Modeling of Design Patterns in UML
Jeffrey K. H. Mak, Clifford S. T. Choy, Daniel P. K. Lun
May 2004 **Proceedings of the 26th International Conference on Software Engineering ICSE '04**
Publisher: IEEE Computer Society
Full text available: pdf(160.12 KB) Additional Information: full citation, abstract, index terms

Prior research attempts to formalize the structure ofobject-oriented design patterns for a more precisespecification of design patterns. It also allows automationsupport to be developed for user-defined design patternsin the future CASE tools. Targeting to a particular type ofautomation (e.g. verification of pattern instances),previous specification approaches over-specify patternstructures to a certain extend. Over-specification makespattern specification ambiguous and disallows thespecificatio ...

5 Software engineering: Representing the applications and compositions of design patterns in UML
Jing Dong
March 2003 **Proceedings of the 2003 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(599.01 KB) Additional Information: full citation, abstract, references

Design patterns capture the distilled experience of expert designers. The compositions of design patterns may reuse design experience and solve a set of problems. Design patterns and their compositions are usually modeled using UML. When a design pattern is applied or composed with other patterns, the pattern-related information may be lost because UML does not track this information. Thus, it is hard for a designer to identify a design pattern when it is applied or composed. The benefits of des ...

Keywords: UML, design patterns, extensions, notations

6 Software domain modeling and meta-modeling: AI analysis patterns as UML meta-model constructs
Angeles Manjarrés, Gerson Sunyé, Damien Pollet, Simon Pickin, Jean Marc Jézéquel
July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**
Publisher: ACM Press
Full text available: pdf(55.14 KB) Additional Information: full citation, abstract, references

In this article, we investigate the use of the OO computational paradigm for the formulation of knowledge model patterns as OO analysis patterns. We seek to take advantage of research on design pattern specification, aimed at modelling patterns by means of structural and behavioural "meta-level" constraints, introducing appropriate modifications into the UML. We illustrate our argument with the formulation of an OO "assessment pattern" in analogy to the well known "assessment task template".

7 Designing component-based frameworks using patterns in the UML
Grant Larsen
October 1999 **Communications of the ACM**, Volume 42 Issue 10
Publisher: ACM Press

Full text available: pdf(294.74 KB) html(28.87 KB) Additional Information: full citation, references, citings, index terms

8 Design of self-managing dependable systems with UML and fault tolerance patterns

Matthias Tichy, Daniela Schilling, Holger Giese

October 2004 **Proceedings of the 1st ACM SIGSOFT workshop on Self-managed systems WOSS '04**

Publisher: ACM Press

Full text available: pdf(138.62 KB) Additional Information: full citation, abstract, references

The development of dependable software systems is a costly undertaking. Fault tolerance techniques as well as self-repair capabilities usually result in additional system complexity which can even spoil the intended improvement with respect to dependability. We therefore present a pattern-based approach for the design of service-based systems which enables self-managing capabilities by reusing proven fault tolerance techniques in form of *Fault Tolerance Patterns*. The pattern specification ...

9 Round-trip engineering with design patterns, UML, Java and C++

Wilhelm Schäfer, Albert Zündorf

May 1999 **Proceedings of the 21st international conference on Software engineering**

Publisher: IEEE Computer Society Press

Full text available: pdf(215.40 KB) Additional Information: full citation, references, index terms

Keywords: UML, design patterns, round-trip engineering

10 Modeling architectural patterns using architectural primitives

Uwe Zdun, Paris Avgeriou

October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming systems languages and applications OOPSLA '05**, Volume 40 Issue 10

Publisher: ACM Press

Full text available: pdf(301.08 KB) Additional Information: full citation, abstract, references, index terms

Architectural patterns are a key point in architectural documentation. Regrettably, there is poor support for modeling architectural patterns, because the pattern elements are not directly matched by elements in modeling languages, and, at the same time, patterns support an inherent variability that is hard to model using a single modeling solution. This paper proposes tackling this problem by finding and representing architectural primitives, as the participants in the solutions that patterns c ...

Keywords: OCL, UML, architectural documentation, architectural patterns, modeling patterns, software patterns

11 Modelling: Design pattern modelling and instantiation using DPML

David Mapelsden, John Hosking, John Grundy

February 2002 **Proceedings of the Fortieth International Confernece on Tools Pacific: Objects for internet, mobile and embedded applications - Volume 10 CRPITS '02**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, citings, index terms

We describe the Design Pattern Modelling Language, a notation supporting the specification of design pattern solutions and their instantiation into UML design models. DPML provides a set of modelling constructs allowing design pattern solutions to be modelled and reused. A corresponding notation links design pattern solution elements to UML model elements, verifying fulfilment of the design pattern in the UML model. A prototype tool is described, together with an evaluation of the language and t ...

Keywords: design patterns, pattern instantiation, tool support, visual languages

12 System-level design methodology: Application of UML for hardware design based on design process model

Robertas Damasevicius, Vytautas Stuikys

January 2004 **Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair ASP-DAC '04 , Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair ASP-DAC '04**

Publisher: IEEE Press , IEEE Press

Full text available: pdf(102.81 KB) Publisher Site

Additional Information: full citation, abstract, references, citings

We address a problem of reusing and customizing soft IP components by introducing a concept of *design process* - a series of common, well-defined and well-proven domain-specific actions and methods performed to achieve a certain design aim. We especially examine *system-level* design processes that are aimed at designing a hardware system by integrating soft IPs at a high level of abstraction. We combine this concept with *object-oriented* hardware design using UML and *metapro ...*

13 Modeling components and frameworks with UML

Cris Kobryn

October 2000 **Communications of the ACM**, Volume 43 Issue 10

Publisher: ACM Press

Full text available: pdf(226.29 KB) html(35.10 KB)

Additional Information: full citation, references, citings, index terms

14 Towards the compositional verification of real-time UML designs

Holger Giese, Matthias Tichy, Sven Burmester, Stephan Flake

September 2003 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 9th European software engineering conference held jointly with 11th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-11**, Volume 28 Issue 5

Publisher: ACM Press

Full text available: pdf(231.03 KB)

Additional Information: full citation, abstract, references, citings, index terms

Current techniques for the verification of software as e.g. model checking are limited when it comes to the verification of complex distributed embedded real-time systems. Our approach addresses this problem and in particular the state explosion problem for the software controlling mechatronic systems, as we provide a domain specific formal semantic definition for a subset of the UML 2.0 component model and an integrated sequence of design steps. These steps prescribe how to compose complex soft ...

Keywords: embedded systems, object constraint language (OCL), pattern, real-time, unified modelling language (UML)

15 Short papers: A toolkit for weaving aspect oriented UML designs

Wai-Ming Ho, Jean-Marc Jézéquel, François Pennaneac'h, Noël Plouzeau

April 2002 **Proceedings of the 1st international conference on Aspect-oriented software development**

Publisher: ACM Press

Full text available: pdf(585.14 KB) Additional Information: full citation, abstract, references, citings, index terms

Separation of concerns is a basic engineering principle that is also at the core of object-oriented analysis and design methods in the context of the Unified Modeling Language (UML). The UML gives the designer a rich, but somehow disorganized, set of views on her model as well as many features, such as design pattern occurrences, stereotypes or tag values, allowing her to add non-functional information to a model. Aspect-oriented concepts are applied to manage the multitude of design constraints ...

16 Composition patterns: an approach to designing reusable aspects

Siobhán Clarke, Robert J. Walker

July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

Publisher: IEEE Computer Society

Full text available: pdf(187.98 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

Requirements such as distribution or tracing have an impact on multiple classes in a system. They are *cross-cutting* requirements, or *aspects*. Their support is, by necessity, scattered across those multiple classes. A look at an individual class may also show support for cross-cutting requirements tangled up with the core responsibilities of that class. Scattering and tangling make object-oriented software difficult to understand, extend and reuse. Though design is an important a ...

17 Design and performance modeling of component interconnection patterns for distributed software architectures

Hassan Gomaa, Daniel A. Menascé

September 2000 **Proceedings of the 2nd international workshop on Software and performance WOSP '00**

Publisher: ACM Press

Full text available: pdf(276.11 KB) Additional Information: full citation, references, citings, index terms

Keywords: UML, XML, component interconnection patterns, performance model, queuing networks, software architecture

18 Design analysis techniques: Application of design patterns for hardware design

Robertas Damaševičius, Giedrius Majauskas, Vytautas Štuikys

June 2003 **Proceedings of the 40th conference on Design automation**

Publisher: ACM Press

Full text available: pdf(299.71 KB) Additional Information: full citation, abstract, references, citings, index terms

Design patterns, which encapsulate common solutions to the recurring design problems, have contributed to the increased reuse, quality and productivity in software design. We argue that hardware design patterns could be used for customizing and integrating the Intellectual Property (IP) components into System-on-Chip designs. We formulate the role of design patterns in HW design, and describe their implementation using

metaprogramming. We propose a Wrapper design pattern for adapting the behavio ...

Keywords: UML, design patterns, metaprogramming, system-level design processes, wrapping

19 Performance evaluation of software architecture: XSLT transformation from UML models to LQN performance models

Gordon P. Gu, Dorina C. Petriu

July 2002 **Proceedings of the 3rd international workshop on Software and performance WOSP '02**

Publisher: ACM Press

Full text available: pdf(197.54 KB) Additional Information: full citation, abstract, references, citings

A graph grammar-based transformation of a UML design model into a Layered Queueing Network (LQN) performance model was previously proposed by the authors of this paper. The actual transformation was implemented in two ways: first by using an existing graph-rewriting tool, and secondly through an ad-hoc graph transformation implemented in Java.This paper extends the previous work of the authors by proposing a third approach to implement the UML to LQN transformation by using XSLT. Recommended by ...

Keywords: LQN, UML, XMI, XSLT, software performance engineering

20 A model transformation framework for the automated building of performance models from UML models

Andrea D'Ambrogio

July 2005 **Proceedings of the 5th international workshop on Software and performance WOSP '05**

Publisher: ACM Press

Full text available: pdf(489.73 KB) Additional Information: full citation, abstract, references

In order to effectively validate the performance of software systems throughout their development cycle it is necessary to continuously build performance models from software models and then use the obtained models to check whether the system is being developed according to its performance requirements. The model building activity is a critical and effort-consuming activity. Several approaches have been envisaged to endow software designers with tools that automatically build ready-to-evaluate p ...

Keywords: LQN, MDA, UML, automated model building, model transformation, software performance

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